

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P247465

Luminaire Tested: **LD8B120D010 ER8B120940 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247465  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120940 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12244.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

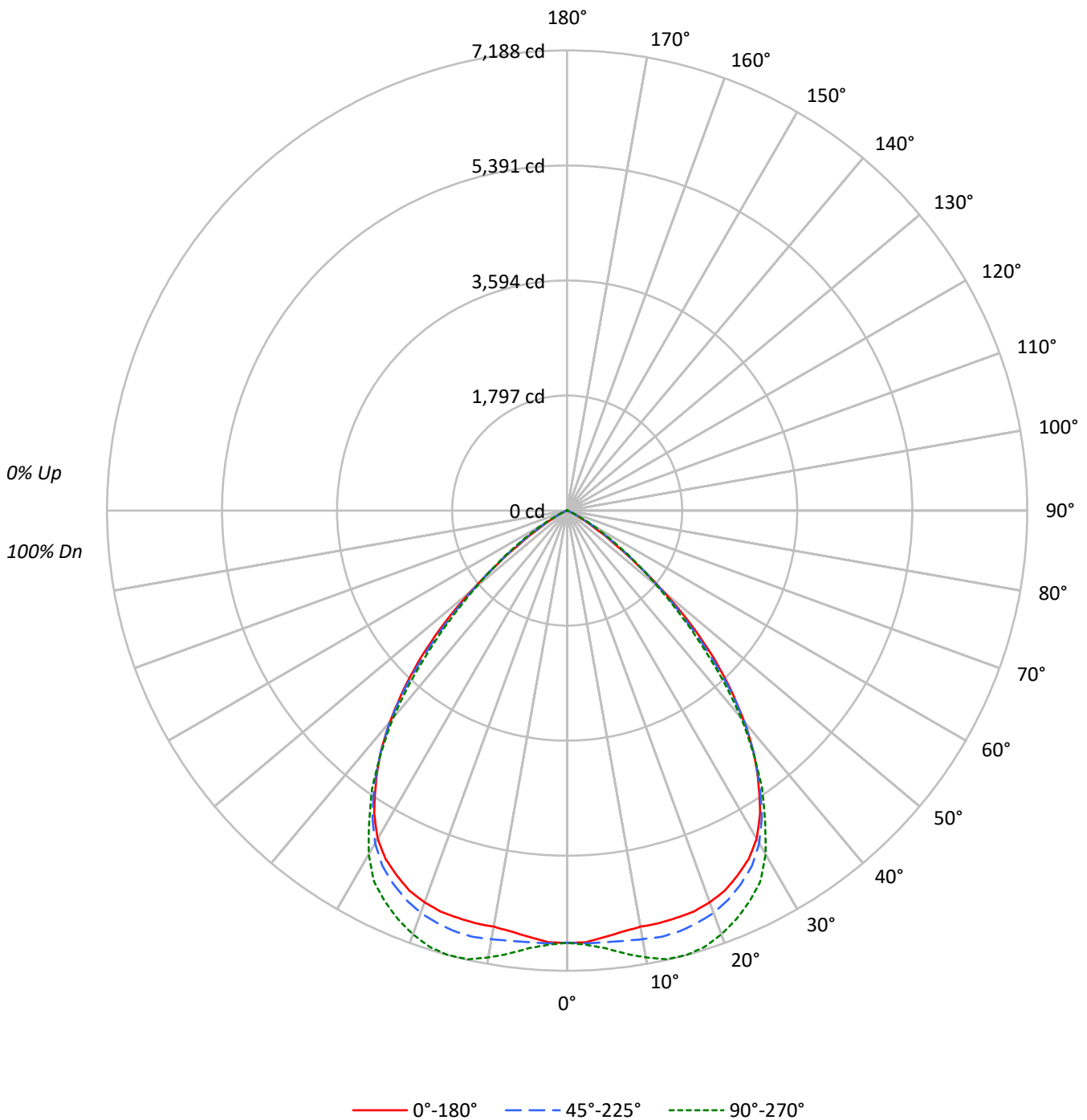
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82					82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73					73			
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49					49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	208164	208164	208164
5°	207009	209485	212410
10°	206650	212853	221893
15°	210271	217138	229454
20°	213687	219413	231125
25°	214059	218789	229146
30°	210792	213548	220651
35°	196183	197466	199936
40°	173394	173185	170065
45°	139667	134464	129257
50°	93787	91331	88246
55°	47611	51702	54880
60°	19501	23873	27839
65°	7275	7756	9091
70°	469	469	352
75°	941	1561	2037
80°	231	0	0
85°	920	0	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	648.2	5.3
10°-20°	1931.8	15.8
20°-30°	2972.8	24.3
30°-40°	3256.0	26.6
40°-50°	2367.4	19.3
50°-60°	910.7	7.4
60°-70°	142.6	1.2
70°-80°	10.2	0.1
80°-90°	4.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5552.9	45.4
0°-40°	8808.8	71.9
0°-60°	12087.0	98.7
0°-90°	12244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12244.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6751	6751	6751	6751	6751	
5°	6688	6722	6768	6832	6862	636
15°	6587	6638	6802	7054	7188	1864
25°	6291	6329	6430	6621	6735	2894
35°	5212	5212	5246	5278	5311	3236
45°	3203	3170	3083	3005	2964	2435
55°	886	909	962	993	1021	865
65°	100	104	106	121	125	122
75°	8	17	13	17	17	10
85°	3	0	0	0	3	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6750.6	6750.6	6750.6	6750.6	6750.6
2.5°	6749.3	6759.8	6766.3	6780.8	6787.3
5°	6687.6	6721.7	6767.6	6831.9	6862.1
7.5°	6633.8	6681.0	6779.4	6918.5	6980.2
10°	6599.7	6650.9	6797.8	6986.7	7086.5
12.5°	6603.6	6660.0	6818.8	7045.8	7179.6
15°	6586.6	6637.7	6801.7	7053.7	7187.5
17.5°	6566.9	6608.9	6754.5	7001.2	7145.5
20°	6511.8	6547.2	6686.3	6909.3	7043.2
22.5°	6429.1	6461.9	6577.4	6784.7	6908.0
25°	6291.4	6329.4	6430.4	6620.7	6734.8
27.5°	6137.8	6160.1	6253.3	6426.5	6535.4
30°	5920.0	5927.9	5997.4	6131.3	6196.9
32.5°	5609.1	5607.8	5660.2	5727.2	5752.1
35°	5211.5	5211.5	5245.6	5278.4	5311.2
37.5°	4798.2	4793.0	4796.9	4804.8	4777.2
40°	4307.5	4297.0	4302.3	4255.0	4224.8
42.5°	3769.6	3778.7	3726.3	3642.3	3610.8
45°	3202.7	3169.9	3083.4	3004.6	2964.0
47.5°	2600.5	2549.3	2466.7	2385.3	2378.8
50°	1955.0	1957.6	1903.8	1857.9	1839.5
52.5°	1356.7	1371.1	1398.7	1403.9	1410.5
55°	885.6	909.3	961.7	993.2	1020.8
57.5°	541.9	585.2	629.8	688.8	694.1
60°	316.2	337.2	387.1	431.7	451.4
62.5°	178.4	198.1	208.6	234.9	241.4
65°	99.7	103.7	106.3	120.7	124.6
67.5°	60.4	63.0	65.6	64.3	66.9
70°	5.2	11.8	5.2	6.6	3.9
72.5°	22.3	14.4	15.7	11.8	7.9
75°	7.9	17.1	13.1	17.1	17.1
77.5°	5.2	3.9	6.6	7.9	6.6
80°	1.3	0.0	0.0	0.0	0.0
82.5°	11.8	10.5	6.6	10.5	3.9
85°	2.6	0.0	0.0	0.0	2.6
87.5°	7.9	3.9	3.9	9.2	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)